

Title (en)
Novel cyclic ureas useful as antiarrhythmic and antifibrillatory agents

Title (de)
Zyklische Harnstoffe mit antiarrhythmischer und antifibrillatorischer Wirkung

Title (fr)
Urées cycliques comme agents antiarythmiques et antifibrillants

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- US 9206683 W 19920810

Abstract (en)

[origin: WO9304060A1] The novel cyclic ureas of the present invention are useful as antiarrhythmic and antifibrillatory agents and have general structure (I) wherein (a) X is a saturated or unsaturated, 5-, 6-, or 7-membered heterocycle or carbocycle; (b) R is selected from the group consisting of covalent bond, nil, heteroatom, carbonyl, heterocyclic ring, carbocyclic ring, alkyl, alkenyl, alkoxy, alkylamino, arylalkyl, aryloxy, acyl, acyloxy, and acylamino; (c) Y is a substituted or unsubstituted, saturated or unsaturated, 5-, 6-, or 7-membered heterocyclic ring or carbocyclic ring, or is nil; and wherein when R is nil, X and Y are fused ring systems; and when R is a covalent bond, X and Y are ring systems linked through a covalent bond; and when Y is nil, R is a covalent bond and X is bound to L through R; (d) R1, R2, and R3 are independently selected from the group consisting of nil, Cl, F, Br, NH2, CF3, OH, SO3H, CH3SO2NH, COOH, alkoxy, alkyl, alkoxycarbonyl, hydroxyalkyl, carboxyalkyl, aminoalkyl, acylamino, and acyloxy; (e) L is selected from the group consisting of alkylamino, alkenylamino, alkylimino, alkenylimino, and acylamino wherein the nitrogen atom thereof is bound to the nitrogen atom at the 1-position of the cyclic urea moiety; (f) R4 is selected from the group consisting of alkyl, alkenyl, alkynyl, alkylacyl, and heteroalkyl; (g) A is a substituted or unsubstituted, saturated or unsaturated, straight-chain or branched, C1-C8 heteroalkyl, or a substituted or unsubstituted, saturated or unsaturated heterocycle having 5-, 6-, or 7-members; and has one nitrogen atom, which is adjacent to R4; and (h) R5 is a substituted or unsubstituted C1 or C2 alkyl; and the pharmaceutically-acceptable salts and esters thereof.

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